

ROTATING UPPERWORKS WEIGHT AND CENTER OF GRAVITY (WU)			
EQUIPPED AS	WEIGHT (lbs)	DIM "A" (in.)	DIM "B" (in.)
999 SERIES 1 (114,600 lb. CTWT)	172,391	133.3	-16.6
999 SERIES 1 (149,600 lb. CTWT)	207,391	141.1	-10.8
999 SERIES 2 (184,600 lb. CTWT)	242,391	146.6	-3.4
999 SERIES 3 (219,600 lb. CTWT)	277,391	150.7	4.9
LOWERWORKS WEIGHT AND CENTER OF GRAVITY (WL)			
EQUIPPED AS	WEIGHT (lbs)	DIM "C" (in.)	DIM "D" (in.)
999 SERIES 1	106,713	0	73.9
999 SERIES 1 - WITH OPTIONAL CARBODY JACKS	109,599	0	73.7
999 SERIES 2	150,713	0	74.6
999 SERIES 2 - WITH OPTIONAL CARBODY JACKS	153,599	0	74.5
999 SERIES 3	186,713	0	71.8
999 SERIES 3 - WITH OPTIONAL CARBODY JACKS	189,599	0	71.7

NOTE 1: BOOM AND JIB WEIGHTS INCLUDE WEIGHT OF MAST, BOOM, JIB, PENDANTS ETC.; BUT DO NOT INCLUDE WEIGHT OF LOAD, LOAD BLOCK, WEIGHT BALL, SLINGS, ETC. ALL ITEMS SUSPENDED FROM BOOM OR JIB MUST BE CONSIDERED PART OF THE LOAD.

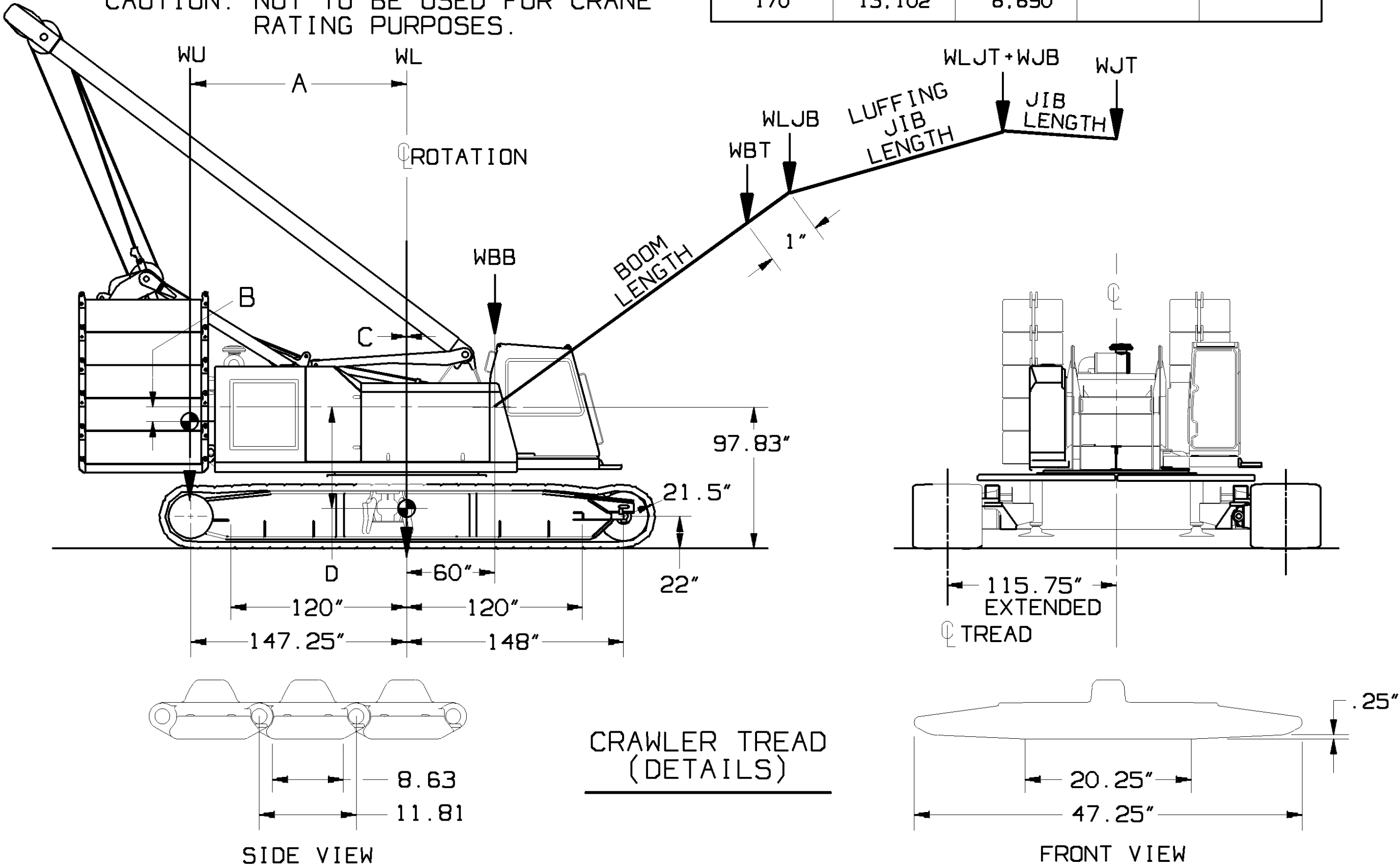
NOTE 2: WEIGHTS FOR 70 THRU 180 FT. BOOMS INCLUDE A 8 SHEAVE BOOM POINT, 190 FT BOOM INCLUDES A 2 SHEAVE BOOM POINT, AND 200 FT. BOOM REQUIRE THAT ALL BOOM POINT SHEAVES BE REMOVED.

NOTE 3: CONSULT PROPER CRANE CAPACITY CHART FOR LIFTING CAPACITIES AND ALLOWABLE BOOM AND JIB COMBINATIONS.

BOOM WEIGHTS		
BOOM LENGTH (ft.)	#82 or #22EL	
	WBB (lbs)	WBT (lbs)
70	21,534	20,860
80	23,526	21,775
90	25,400	22,808
100	26,001	22,644
110	27,822	23,731
120	28,307	23,917
130	29,668	24,487
140	30,075	24,620
150	31,914	25,689
160	32,190	26,084
170	33,439	26,736
180	33,673	27,173
190	35,560	28,194
200	35,732	28,693

JIB WEIGHTS				
BOOM LENGTH (ft.)	LUFFER #135		FIXED #138	
	WLJB (lbs)	WLJT (lbs)	WJB (lbs)	WJT (lbs)
30			1,134	820
40			1,274	934
50			1,411	1,052
60			1,545	1,173
70	9,636	5,535		
80	10,159	5,944		
90	10,460	6,223		
100	10,931	6,639		
110	10,976	6,724		
120	11,462	7,124		
130	11,731	7,435		
140	12,261	7,837		
150	12,298	7,982		
160	12,842	8,369		
170	13,102	8,690		

CAUTION: NOT TO BE USED FOR CRANE RATING PURPOSES.



DATE	SCALE	MANITOWOC CRANES, INC. MANITOWOC, WISCONSIN	C G CHART
4-26-02	DR. JLD		48" TREADS
DWG. NO.	CK. JLD	MODEL 999	BOOM NO.82 OR 22EL
T.S. 335	APP.		LUFFING JIB NO.135